

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1(Currently Amended). A system to mitigate interference between high frequency and low frequency communications over a common line, comprising:
- a detector operative to detect approximately when a change in a ringing condition associated with the common line is about to occur and provide a notification indicative thereof; and
 - a high frequency communications system associated with the common line for communication of at least one of voice and data as high frequency data via the common line, the high frequency communications system being operative to temporarily stop downstream transmission of the ~~at least one of voice and high~~ frequency data based on the notification, and so as to allow at least some of the change in the ringing condition to occur, such that interference on the downstream transmission of high frequency data due to the change in the ringing condition is mitigated.
- transmit idle data cells downstream during the temporary stoppage of downstream transmission of high frequency data.
- 2(Original). The system of claim 1, further comprising a bus from which the high frequency communications system receives data for high frequency downstream transmission over the common line, the high frequency communications system temporarily refusing data from the bus in response to the notification.
3. Canceled.
- 4(Original). The system of claim 2, further comprising a Plain Old Telephone Service (POTS) system coupled to the bus to receive at least one of voice and data for transmission as

low frequency data via the common line, the POTS system being operative to delay initiating the change in the ringing condition for a time period according to the notification.

5(Original). The system of claim 4, the time period being a predetermined time period less than or equal to about thirty-two milliseconds.

6(Original). The system of claim 4, the high frequency communications system comprising a Digital Subscriber Line (DSL) system operative to transmit and receive the at least one of voice and data as high frequency data over the common line.

7(Original). The system of claim 6, further comprising a splitter operatively coupled to the common line and to each of the DSL system and the POTS system, the splitter operative to send and receive the high frequency data relative to the DSL system via the common line and to send and receive the low frequency data relative to the POTS system via the common line.

8(Original). The system of claim 1, further comprising a bus from which the high frequency communications system receives at least one of voice and data signals for downstream transmission as the high frequency data over the common line, the high frequency communications system comprising at least one buffer in which received data is stored during the temporary stoppage of downstream high frequency data.

9(Original). The system of claim 1, the high frequency communications system imposing the temporary stoppage of downstream high frequency data for a time period sufficient to allow the change in the ringing condition to occur.

10(Original). The system of claim 9, the time period being a predetermined fixed duration.

11(Original). The system of claim 9, the high frequency communications system having at least two operating modes, the high frequency communications system controlling the duration of the time period according to in which of the at least two operating modes the high frequency communications system is operating.

12(Original). The system of claim 11, the at least two operating modes comprising a fastpath mode and an interleave mode.

13(Original). The system of claim 1, the detector being implemented as computer executable instructions in a controller of associated carrier equipment that also includes the high frequency communications system, the controller being operative to control a plurality of Digital Subscriber Line systems, the high frequency communications system being one of the plurality of Digital Subscriber Line systems.

14(Original). The system of claim 1, the detector being implemented as computer executable instructions in a Plain Old Telephone Service (POTS) system of associated carrier equipment that also includes the high frequency communications system, the detector of the POTS system being coupled to communicate the notification to the high frequency communications system.

15(Original). The system of claim 14, the high frequency communications system and the POTS system being implemented in an integrated hardware module.

16 – 22. Canceled.

23(Currently Amended). A method for mitigating interference ~~in downstream transmission of a high frequency communications signal associated with a change in a condition of a low frequency communications signal, between low frequency communication signals and high frequency communication signals wherein the high frequency communications signal and low frequency communications signal are transmitted concurrently over a common line,~~ the method comprising:

detecting that ~~the~~ a change in the condition of the low frequency communications signal is about to occur; and

temporarily stopping transmission of data in the high frequency communication signal ~~downstream traffic of data for a time period sufficient~~ to allow at least some of the change in the condition of the low frequency communications signal to occur; and

transmitting idle data in the high frequency communications signal during the temporary stoppage.

24(Original). The method of claim 23, the change in the condition comprising a change in a ringing condition for the low frequency communications signal associated with the common line.

25(Original). The method of claim 24, further comprising notifying a transmitter of the high frequency communications signal that a change in the ringing condition is about to occur.

26(Original). The method of claim 25, further comprising delaying the change in the ringing condition for a duration based on the notification.

27(Original). The method of claim 26, further comprising temporarily stopping downstream traffic of data for a time period based on the duration of the delay associated with the change in the ringing condition.

28 – 30. Canceled.

31(New). A method for mitigating interference between low frequency communication signals and high frequency communication signals transmitted concurrently over a common line, the method comprising:

detecting that a change in condition of the low frequency communications signal is about to occur; and

delaying the change in the condition of the low frequency communications signal to allow completion of transmission of a current high frequency data frame.

32(New). The method of claim 31, wherein the change in the condition comprising a change in a ringing condition for the low frequency communications signal associated with the common line.

33(New). The method of claim 31, further comprising notifying a transmitter of the high frequency communications signal that a change in the ringing condition is about to occur.

34(Original). The method of claim 31, further comprising temporarily stopping transmission of high frequency communication data signals after the completion of transmission of the current high frequency data frame for a time period sufficient to allow at least some of the change in the condition of the low frequency communications signal to occur; and transmitting idle data in the high frequency communications signal during the temporary stoppage.